HEAPPE MANUAL & TRAINING
Best Practice Guide

Václav Svatoň
2022

VSB TECHNICAL UNIVERSITY OF OSTRAVA
IT4INNOVATIONS NATIONAL SUPERCOMPUTING CENTER

© Copyright 2021 Beneficiaries of the EuroCC/Castiel Project

HEAPPE MANUAL & TRAINING
Best Practice Guide

HPC-as-a-Service is a well-known term in the area of high-performance computing. It enables users to access an HPC infrastructure without a need to buy and manage their own physical servers or data centre infrastructure. Through this service small and medium enterprises (SMEs) can take advantage of the technology without an upfront investment in the hardware. This approach further lowers the entry barrier for users and SMEs who are interested in utilizing massive parallel computers but often do not have the necessary level of expertise in this area.

To provide this simple and intuitive access to the supercomputing infrastructure an in-house application framework called HEAppE has been developed by IT4Innovations. It manages and provides information about submitted and running jobs and their data between the client application and the HPC infrastructure. It is licensed as an open source so any interested party is able to download it and using the official documentation to test it on user's local computer.
https://heappe.it4i.cz/docs/index.html

HEAppE middleware's solution is applicable for a number of domains or use-cases whenever there is a need for a secure, remote, and easy-to-use access to a remote HPC infrastructure. The middleware's architecture is designed with ideas of interoperability, security, and adaptability thus this solution is also viable for a different computing infrastructures.

Contact:

- *support.heappe@it4i.cz*
- *vaclav.svaton@vsb.cz*

© Copyright 2021 Beneficiaries of the EuroCC/Castiel Project

This project has received funding from the European High-Performance Computing Joint Undertaking (JU) under grant agreement No 951732. The JU receives support from the European Union's Horizon 2020 research and innovation programme and Germany, Bulgaria, Austria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, Greece, Hungary, Ireland, Italy, Lithuania, Latvia, Poland, Portugal, Romania, Slovenia, Spain, Sweden, the United Kingdom, France, the Netherlands, Belgium, Luxembourg, Slovakia, Norway, Switzerland, Turkey, the Republic of North Macedonia, Iceland, and Montenegro. This project has received funding from the Ministry of Education, Youth and Sports of the Czech Republic (ID:MC2101).

© Copyright 2021 Beneficiaries of the EuroCC/Castiel Project